

ABSTRACT

An antifreeze gel composition is provided which particularly useful to prevent ice formation. The composition includes a water-soluble antifreeze agent such as sorbitol, dextrose; gel forming agent; catalysts; and additives. The present invention further provides a rigid, good transparent gel. The advantage of the hard gel is to provide multi-color printing images on the surface of the deformable container. The method of printing process can be either screen printed or pad printing. The hard gel was formed by two-part reaction between gum and cross-linking agents. The hardness of the container is below 30 A and the elongation of the container is over 1100%. The container is soft, stretchable, and it is a closed system.